



#5

[c1]

1. A system for communication between electronic devices comprising:

(A)a power line interface;

(B)an analog front-end processor electrically connected to said power line interface;

(C) a modem/phone line physical layer digital processor electrically connected to said analog front-end processor;

(D) a back end interface electrically connected to said modem/phone line physical layer digital processor; and

(E) a computation device in electronic communication with said back end interface.

[c2]

2.A method for communicating information from a first computation device to a second computation device, comprising:

(A)reading data from computer memory;

(B)encrypting said read data;

(C)checking if a channel medium is clear;

(D)fetching said encrypted data;

(E)error encoding said fetched encrypted data;

(F)modulating said error encoded data;

(G)mapping out bad tones for transmit of error-encoded data;

(H)filtering said error encoded data:

(l) amplifying said filtered data; and

(J)coupling said amplified data to an AC power line.

[c3]

3.A method for communicating information from a first computation device to a second computation device, comprising:

- (A)receiving a power line communication signal;
- (B)amplifying said received power line communication signal;
- (C)filtering said amplified signal;
- (D)converting said amplified signal to data;
- (E)demodulating said data;
- (F)forward error decoding said demodulated data;
- (G)sending said decoded data to a computer memory; and
- (H)decrypting said data in computer memory.

[c4]

4.A system for communicating between a computer device to a second computer device, comprising:

- (A)a power line communication channel;
- (B)a digital processor in electrical communication with said power line communication channel, wherein said digital processor employs a HomePNA protocol; and
- (C)an interface between said digital processor with a computer device, said computer device further encrypting data for transmit across said power line communication channel.